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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/825,186
		Filing Date	April 16, 2004
		First Named Inventor	Zhang et al.
		Group Art Unit	1645
		Confirmation No.	8260
Total Number of Pages in This Submission		Attorney Docket Number	057953-1221

ENCLOSURES (check all that apply)		
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Firm or Individual name	Marc S, Kaufman, Reg. No. 35,212 Nixon Peabody LLP, c/o Michael L. Goldman Clinton Square, P.O. Box 31051 Rochester, New York 14603-1051 Telephone: (585) 263-1304 Facsimile: (585) 263-1600
Signature	
Date	December 1, 2004

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PATENT

Docket No.: 57953/1221 (ZHA01-01)

Applicant(s) : Zhang et al.

Serial No. : 10/825,186

Cnfrm. No. : 8260

Filed : April 16, 2004

**For : A METHOD FOR INTRODUCING
CONJUGATED CAPS ONTO MOLECULAR
FRAGMENTS AND SYSTEMS AND
METHODS FOR USING THE SAME TO
DETERMINE INTER-MOLECULAR
INTERACTION ENERGIES**

Examiner:
To Be Assigned

Art Unit:
1645

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97-1.98

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Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

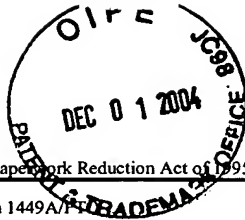
Pursuant to 37 C.F.R. § 1.97(b)(3), no fee is required. If additional fees are required, however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 14-1138.

Respectfully submitted,

Date: Dec. 1, 2004

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				Application Number	10/825,186
				Filing Date	April 16, 2004
				First Named Inventor	Zhang et al.
				Art Unit	1645
				Examiner Name	To Be Assigned
Sheet	1	of	2	Attorney Docket Number	57953/1221 (ZHA01-01)

U.S. PATENT DOCUMENTS					
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Chen et al., "Fractionation of Peptide with Disulfide Bond for Quantum Mechanical Calculation of Interaction Energy with Molecules," <i>Journal of Chemical Physics</i> 120(2):839-844 (2004)	
	2	Chen et al., "Theoretical Method for Full <i>ab initio</i> Calculation of DNA/RNA-Ligand Interaction Energy," <i>Journal of Chemical Physics</i> 120(24):11386-11391 (2004)	
	3	Gao et al., "An Efficient Linear Scaling Method for <i>ab initio</i> Calculation of Electron Density of Proteins," <i>Chemical Physics Letters</i> 394:293-297 (2004)	

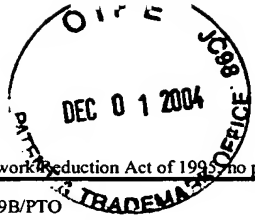
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				Application Number	10/825,186
				Filing Date	April 16, 2004
				First Named Inventor	Zhang et al.
				Group Art Unit	1645
				Examiner Name	To Be Assigned
Sheet	2	of	2	Attorney Docket Number	57953/1221 (ZHA01-01)

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	4	Xiang et al., "Fully Quantum Mechanical Energy Optimization for Protein-Ligand Structure," <i>Journal of Computational Chemistry</i> 25(12):1431-1437 (2004)	
	5	Zhang et al., "Full <i>ab initio</i> Computation of Protein-Water Interaction Energies," <i>Journal of Theoretical and Computational Chemistry</i> 3(1):43-49 (2004)	
	6	Zhang et al., "Molecular Caps for Full Quantum Mechanical Computation of Peptide-Water Interaction Energy," <i>Journal of Computational Chemistry</i> 24(15):1846-1852 (2003)	
	7	Zhang et al., "Molecular Fractionation with Conjugate Caps for Full Quantum Mechanical Calculation of Protein-Molecule Interaction Energy," <i>Journal of Chemical Physics</i> 119(7):3599-3605 (2003)	
	8	Zhang et al., "New Advance in Computational Chemistry: Full Quantum Mechanical <i>ab Initio</i> Computation of Streptavidin-Biotin Interaction Energy," <i>J. Phys. Chem.</i> 107:12039-12041 (2003)	
	9	Zhang et al., "Quantum Mechanical Map for Protein-Ligand Binding with Application to β -Trypsin/Benzamidine Complex," <i>Journal of Chemical Physics</i> 120(3):1145-1148 (2004)	

Examiner Signature		Date Considered	
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